

AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions, and listings, of claims in this application.

Listing of the Claims:

1. (Currently Amended) A method of managing a telecommunications network, comprising:
executing at least one application on a network device;
receiving a threshold expression from a user through a user interface; and
implementing the threshold expression within the a network device while the network device is operational, wherein said implementing step comprises:
storing the threshold expression in a configuration database, and
establishing at least one active query between said configuration database and said
application so as to send a notification from the database to the application upon
occurrence of a change in said threshold expression.
2. (Original) The method of claim 1, wherein receiving a threshold expression comprises:
receiving a user selection of an existing threshold expression.
3. (Original) The method of claim 1, wherein receiving a threshold expression comprises:
receiving a new threshold expression from the user.
4. (Original) The method of claim 1, where the threshold expression includes a plurality of cascaded threshold expressions.
5. (Original) The method of claim 1, wherein prior to receiving a threshold expression, the method further comprises:
receiving a resource selection from the user through the user interface; and
displaying a threshold dialog box, wherein the threshold expression is received through the threshold dialog box.
6. (Original) The method of claim 5, further comprising:

displaying a plurality of existing threshold expressions to the user through the threshold dialog box.

7. (Original) The method of claim 5, further comprising:

displaying a default threshold expression to the user through the threshold dialog box.

8. (Currently Amended) A method of managing a telecommunications network, comprising:

~~receiving a resource selection from a user through a user interface, comprising:~~

displaying a threshold dialog box to the user,

receiving a threshold expression from the user through the threshold dialog box,

implementing the threshold expression within a network device while the network device is operational,

wherein implementing the threshold expression within a network device while the network device is operational comprises:

establishing an active query between a configuration database within the network device and at least one application capable of executing a thresholding code,

writing data from the threshold dialog box into at least one table in said a configuration database ~~within the network device~~; and

updating said thresholding code ~~executing within the network device~~ with the data written into the at least one table in response to an active query notification from said configuration database to said application.

9. (Original) The method of claim 8, wherein writing data from the threshold dialog box into at least one table in a configuration database within the network device comprises:

sending the data from the threshold dialog box through a network management system (NMS) client to an NMS server; and

writing the data into the at least one table through the NMS server.

10. Canceled.

11. (Currently Amended) A method of managing a telecommunications network, comprising:

executing at least one application on a network device;

receiving a new threshold expression from a user through a user interface; and
implementing the new threshold expression within a network device while the network device is operational, wherein said implementing step comprises:

updating a configuration database with the new threshold expression, and

establishing at least one active query between said configuration database and said application so as to send a notification from the database to the application when the new threshold expression is received.

12. (Currently Amended) A method of managing a telecommunications network, comprising:
displaying a plurality of existing threshold expressions through a user interface;
receiving a user selection of one of the existing threshold expressions; and
implementing the selected existing threshold expression within a network device while the network device is operational, wherein said implementing step comprises:

storing the threshold expression in a configuration database, and

establishing at least one active query between said configuration database and said network device so as to send a notification from the database to the network device upon occurrence of a change in said threshold expressions.

13. (Currently Amended) A method of managing a telecommunications network, comprising:
executing at least one application on a network device;
implementing a plurality of cascaded threshold expressions within a network device, where said implementing step comprises:

storing the cascaded threshold expressions in a configuration database, and

establishing at least one active query between said configuration database and said application so as to send a notification from the database to the application upon occurrence of a change in said cascaded threshold expressions.

14. (Original) A method of managing a telecommunications network, comprising:
assigning a unique identifier to each of a plurality of resources in a network device;

receiving a resource selection from a user through a user interface; and
establishing a threshold evaluation for the selected resource using the unique identifier assigned to the selected resource.

15. (Original) The method of claim 14, wherein receiving a resource selection from a user through a user interface comprises:

receiving a resource selection and a resource attribute selection from the user through a threshold dialog box.

16. (Original) The method of claim 14, wherein the threshold evaluation is established within the network device and while the network device is operational.

17. (Original) The method of claim 15, wherein establishing a threshold evaluation for the selected resource using the unique identifier assigned to the selected resource comprises:

receiving a threshold expression from the user through the threshold dialog box;

writing data, including the unique identifier assigned to the selected resource and the threshold expression, from the threshold dialog box into at least one table in a configuration database within the network device; and

updating thresholding code executing within the network device with the data written into the at least one table.

18. (Original) The method of claim 17, wherein receiving a threshold expression from the user through the threshold dialog box comprises:

receiving a user selection of an existing threshold expression.

19. (Original) The method of claim 17, wherein receiving a threshold expression from the user through the threshold dialog box comprises:

receiving a new threshold expression from the user.

20. (Original) The method of claim 17, wherein writing data from the threshold dialog box into at least one table in a configuration database within the network device comprises:

sending the data from the threshold dialog box through a network management system (NMS) client to an NMS server; and

writing the data into the at least one table through the NMS server.

21. (Original) The method of claim 17, wherein updating thresholding code executing within the network device with the data written into the at least one table comprises:

sending an active query notice to each application including the thresholding code and corresponding to the selected resource.

22. (Currently Amended) A method of managing a telecommunications network, comprising:

establishing an active query between at least one record of a configuration database within a network device and an application executing a thresholding code in said device, said record storing at least one threshold expression

modifying said ~~one or more~~ threshold expressions ~~within a network device~~ while the network device is operational;

sending an active query notification from the configuration database to the application indicative of said modification, wherein said application updates the thresholding code in accordance with said modification.

detecting a threshold event in the ~~an~~ application ~~within a network device~~ in accordance with said modified threshold expressions;

notifying the modified thresholding code of the threshold event; and

responding to the threshold event in accordance with an action defined within the modified thresholding code.

23. (Original) The method of claim 22, wherein detecting a threshold event in an application within a network device comprises:

monitoring a resource attribute continuously; and

comparing the resource attribute against a threshold expression provided to the application by the thresholding code.

24. (Original) The method of claim 22, wherein responding to the threshold event in accordance with an action defined within the thresholding code comprises:

notifying a network manager of the threshold event.

25. (Original) The method of claim 24, wherein notifying a network manager of the threshold event comprises:

sending a notice to network management system software external to the network device.

26. (Original) The method of claim 24, wherein notifying a network manager of the threshold event comprises:

 sending an electronic mail message to the network manager.

27. (Original) The method of claim 24, wherein notifying a network manager of the threshold event comprises:

 sending a page to the network manager.

28. (Original) The method of claim 22, wherein responding to the threshold event in accordance with an action defined within the thresholding code comprises:

 logging the threshold event.

29-31. Canceled.

32. (New) The method of claim 1, wherein the implementing step further comprises:

 linking the application to a threshold monitoring library (TML), said TML causing the application to retrieve said threshold expression from the configuration database; and

 wherein said step of establishing the active query further comprises:

 establishing an active query between the configuration database and the TML for providing said TML with notifications of changes to said threshold expression.

33. (New) The method of claim 32, further comprising:

 causing the TML to poll the application to retrieve values of selected attributes of said application defined for monitoring by one or more of said threshold expressions.

34. (New) The method of claim 33, further comprising:

 notifying an SNMP agent if one or more of said retrieved attribute values indicates occurrence of a threshold event.